

CLI troubleshooting cheat sheet

This reference lists some important command line interface (CLI) commands that can be used for log gathering, analysis, and troubleshooting.

It provides a basic understanding of CLI usage for users with different skill levels. Exploring additional commands beyond the ones listed here to gain a comprehensive understanding of the CLI is recommended.

Enable/Disable debugging

Command	Description
diagnose debug reset	Stop all the prior debugs that were enabled and running in the foreground or background.
diagnose debug enable	Start printing debugs in the console.
diagnose debug disable	Stop printing debugs in the console. The debugs are still running in the background; use diagnose debug reset to completely stop them.
diagnose debug duration 0	Start debugging for infinite duration. By default, debug is set for 30 minutes.

System

Command	Description
get system status	Show system information.
execute time	Show current system time.
get system performance status	Show CPU and memory utilization.
execute tac report	Execute TAC report used to open a support ticket with Fortinet Support.
diagnose sys top {s} {n} {i}	Show a list of the first <i>n</i> processes every <i>s</i> seconds for <i>i</i> iterations. <ul style="list-style-type: none"> • Shift +C: Sort by highest CPU • Shift + M: Sort by highest memory
diagnose debug crashlog read	Show system and application crashes.
diagnose sys process pidof <daemon>	Show PID of the daemon that is running. The names of currently running daemons can be found using diagnose sys top. For example: diagnose sys process pidof httpsd
diagnose sys kill 11 <pid>	Kill the PID with signal 11.
diagnose sys session stat	Show session statistics.
diagnose sys session exp-stat	Show expectation session statistics.
diagnose sys vd list	Show virtual domain information and system statistics.
diagnose sys cmdb info	Show information about the latest configuration change performed by the daemon.
execute factoryreset [keepvmlicense]	Immediately reset to factory defaults and reboot. If keepvmlicense is specified (VM models only), the VM license is retained after reset.
execute factoryreset-shutdown [keepvmlicense]	Immediately reset to factory defaults and shutdown. If keepvmlicense is specified (VM models only), the VM license is retained after reset.
execute factoryreset2 [keepvmlicense]	Reset to factory default, except system settings, system interfaces, VDOMs, static routes, and virtual switches. If keepvmlicense is specified (VM models only), the VM license is retained after reset.

Command	Description
diagnose debug config-error-log read	Show errors in the configuration file.
diagnose snmp ip frags	Show fragmentation and reassembly information.
diagnose sys process dump <PID>	Show essential process related information for a particular process PID.
diagnose sys process pstack <PID>	
diagnose sys process trace <PID>	
diagnose sys mpstat {n}	Show CPU usage every n seconds.
diagnose hardware sysinfo memory	Show system memory information.
diagnose firewall packet distribution	Show packet distribution statistics.
execute reboot	Reboot the device.

Hardware

Command	Description
diagnose hardware sysinfo interrupts	Show hardware interrupts statistics.
diagnose hardware test suite all	Execute a hardware diagnostic test, also known as an HQIP test.
diagnose hardware deviceinfo disk	Show disk information.
diagnose sys flash list	Show flash partitions.
execute disk list	Show available mounted disks.
execute disk format <partition ref>	Format the referenced partition.
diagnose disktest device <device>	Execute a disk check to check if disk is faulty. <ul style="list-style-type: none"> • <device>: Device to test • <block>: Block size of each read/write operation. • <mb>: Test size limit for each cycle
diagnose disktest block <block>	
diagnose disktest size <mb>	
diagnose disk test run	
execute formatlogdisk	Format the log disk.
diagnose hardware sysinfo cpu	Show CPU information.
diagnose sys modem detect	Detect the modem and start real-time debugging of the modem daemon.
diagnose debug application modemd -1	
diagnose debug enable	

FortiGuard

Command	Description
diagnose webfilter fortiguard statistics	Show rating cache and daemon statistics.
diagnose debug rating	Show web filter rating server information.
diagnose debug application update -1	Start debugging for updated daemon to troubleshoot FortiGuard update issues.
diagnose debug enable	
execute update-now	Execute the FortiGuard update manually.
diagnose autoupdate status	Show license information.
diagnose autoupdate versions	

Session table

Command	Description
diagnose sys session filter <filter>	Set session table filters.

Command	Description	
diagnose sys session filter	Show session filters, if set.	
diagnose sys session list	Show session table after filtering.	
diagnose sys session clear	Clear the session table for the specified filter.	
diagnose firewall iprope list	Show FortiGate's internal firewall table.	

Network diagnostics

Command	Description	
execute ping-options {options} execute ping <x.x.x.x>	Ping IP address <x.x.x.x> using the specified options.	diagnose debug urlfilter <filter> diagnose debug application urlfilter -1 diagnose debug enable diagnose debug enable diagnose test application urlfilter
execute ssh-options {options} execute ssh <x.x.x.x>	SSH to IP address <x.x.x.x> using the specified options.	diagnose test application urlfilter <option>
execute traceroute-options {options} execute traceroute <x.x.x.x>	Traceroute IP address <x.x.x.x> using the specified options.	diagnose debug application dnsproxy -1 diagnose debug enable
get system arp diagnose ip arp list	Show ARP entries.	diagnose debug enable diagnose test application dnsproxy
diagnose netlink brctl list	Show the names of all of the switches on the FortiGate.	diagnose test application dnsproxy <option>
diagnose netlink brctl name host <switch-name>	Show the switching table of the specified switch.	diagnose ips filter set "host <x.x.x.x> and port <port>" diagnose ips debug enable all diagnose debug enable
get system interface get sys interface physical	Show a summary of interface details, including IP address information.	diagnose ips debug enable av diagnose ips debug status show diagnose sys scanunit debug all enable
diagnose ip address list	Show IP address information.	diagnose sys scanunit debug level verbose diagnose sys scanunit debug show diagnose debug enable
diagnose hardware deviceinfo nic <interface> get hardware nic <interface>	Show detailed interface information.	diagnose wad debug enable category scan diagnose wad stream-scan av-test "debug enable"
get sys interface transceiver	Show connected transceivers.	diagnose wad stream-scan av-test "debug all:debug" diagnose sys scanunit debug all enable diagnose sys scanunit debug level verbose diagnose sys scanunit debug show diagnose debug enable

Packet sniffer

Command	Description	
diagnose sniffer packet <interface> '<filter>' <verbose> <count> <a l>	Execute the inbuilt packet sniffer, filtered on a particular interface with the specified filter. For more information, see Performing a sniffer trace or packet capture .	diagnose wad stream-scan av-test "debug enable" diagnose wad stream-scan av-test "debug all:debug" diagnose sys scanunit debug all enable diagnose sys scanunit debug level verbose diagnose sys scanunit debug show diagnose debug enable

Debug flow

Command	Description	
diagnose debug reset	Stop all the prior debugs that were enabled and running in the foreground or background.	diagnose debug enable
diagnose debug flow filter clear	Clear any IPv4 debug flow filters.	
diagnose debug flow filter6 clear	Clear any IPv6 debug flow filters.	
diagnose debug flow filter <filter>	Set a filter for running IPv4 traffic debug flows.	
diagnose debug flow filter6 <filter>	Set a filter for running IPv6 traffic debug flows.	
diagnose debug flow show function-name enable	Show the function name of the code that the traffic accesses.	
diagnose debug flow show iprope enable	Show which internal firewall policy that the traffic is going through.	
diagnose debug console timestamp enable	Start printing timestamps on debugs.	
diagnose debug flow trace start <n>	Show n lines of IPv4 debugs.	
diagnose debug flow trace start6 <n>	Show n lines of IPv6 debugs.	
diagnose debug enable	Start printing debugs in the console.	



For more detailed debug flow filter information, see [Technical Tip: Using filters to review traffic traversing the FortiGate](#).

UTM

Command	Description
diagnose debug urlfilter <filter> diagnose debug application urlfilter -1 diagnose debug enable diagnose debug enable diagnose test application urlfilter	Start real-time debugging for web filter traffic.

List the web filter debug outputs.

Show the web filter debug output for the specified option.

Start real-time debugging for DNS proxy. DNS proxy is responsible for DNS filter, DNS translation, DNS resolution etc.

List the DNS proxy debug outputs.

Show the DNS proxy debug output for the specified option.

Start IPS engine debugs for Application Control and IPS Security profile

Start real-time debugging for antivirus profile when antivirus profile is configured in flow mode.



Real-time debugs are CPU intensive tasks. Running real-time IPS engine debugs with proper filters can result in high CPU usage.

Command	Description
diagnose test application ipsmonitor 1	Show IPS engine information
diagnose test application ipsmonitor 2	Set the IPS engine enable/disable status.
diagnose test application ipsmonitor 99	Restart all IPS engines and monitor.
diagnose test application ipsmonitor 97	Start all IPS engines.
diagnose test application ipsmonitor 98	Stop all IPS engines.

Command	Description	IPv4 and IPv6 routing
diagnose ips session list	Show the IPS sessions in each engine's memory space.	get router info routing-table all
diagnose test application ipsmonitor 13		get router info routing-table database
diagnose ips filter set "host <x.x.x.x> and port <port>"	Show IPS engine debugs for the traffic specified by the filter.	get router info6 routing-table database
diagnose ips debug enable all		diagnose ip route list
diagnose debug enable		get router info kernel
WAD		diagnose ipv6 route list
The WAD daemon handles proxy related processing.		get router info6 kernel
 Real-time debugs are CPU intensive tasks. Running real-time WAD debugs with proper filters can result in high CPU usage.		get router info protocols
		get router info6 protocols
		execute router restart
diagnose test application wad 1000	Show all WAD processes.	get router info ospf status
diagnose test application wad 2	Show total memory usage.	get router info6 ospf status
diagnose test application wad 99	Restart all WAD processes.	get router info ospf neighbor
diagnose wad debug display pid enable	Start real-time debugging of the traffic processed by WAD daemon.	get router info6 ospf neighbor
diagnose wad filter <filter>		get router info ospf database brief
diagnose wad filter list		get router info bfd neighbor
diagnose wad debug enable level <level>		get router info6 bfd neighbor
diagnose wad debug enable category <category>		diagnose test application bfd 1
diagnose debug enable		diagnose test application bfd 2
diagnose wad filter <filter>	Set the filter for the WAD debugs.	diagnose test application bfd 3
diagnose wad filter list	Show all the filters that have been set for debugging.	diagnose debug application bfdd <debug level>
diagnose wad filter clear	Clear the WAD filter settings.	diagnose debug enable
diagnose wad debug enable level <level>	Set the verbosity level of the debugs.	get router info bgp summary
diagnose wad debug enable category <category>	Set the traffic category.	get router info6 bgp summary
diagnose wad debug display pid enable	Show the WAS worker PID in debugs that handle the session request.	get router info bgp neighbors
diagnose debug enable	Start printing debugs in the console.	get router info6 bgp neighbors
		get router info bgp neighbors <x.x.x.x> advertised-routes
		get router info6 bgp neighbors <x::x:x/m> advertised-routes
		get router info bgp neighbors <x.x.x.x> received-routes
		get router info6 bgp neighbors <x::x:x/m> received-routes
		get router info bgp neighbors <x.x.x.x> routes
		get router info6 bgp neighbors <x::x:x/m> routes
		diagnose ip router bgp all enable
diagnose sys profile cpumask <cpu_id>	Set the CPU core to profile.	diagnose ip router bgp level info
diagnose sys profile start	Start CPU profiling and wait for one to two minutes to stop.	diagnose debug enable
diagnose sys profile stop	Stop CPU profiling.	execute router clear bgp {all as <ASN> ip x.x.x.x ipv6 y:y:y:y:y:y:y:y}
diagnose sys profile module	Show the applied kernel modules.	
diagnose sys profile show detail	Show the CPU profiling result for the respective core.	
diagnose sys profile show order		
Tree		
Command	Description	
tree	Show the entire command tree.	execute router clear bgp {all ip x.x.x.x ipv6 y:y:y:y:y:y:y:y} soft {in out}
tree execute	Show the execute command tree.	
tree diagnose	Show the diagnose command tree.	

Command	Description	Command	Description
	<ul style="list-style-type: none"> • out: advertised BGP routes only A soft reset will occur in both directions if neither in nor out is specified. 	diagnose sys link-monitor status diagnose sys link-monitor interface <interface>	Show link monitoring statistics.
get router info ospf status get router info6 ospf status	Show OSPF status for IPv4 and IPv6.	diagnose debug application link-monitor -1 diagnose debug enable	Start real-time link monitor debugging.
get router info ospf interface get router info6 ospf interface	Show OSPF running on interface for IPv4 and IPv6.	diagnose test application lnkmtd 1 diagnose test application lnkmtd 2 diagnose test application lnkmtd 3	Show link monitoring statistics.
get router info ospf neighbor all get router info6 ospf neighbor all	Show OSFP neighbor information for IPv4 and IPv6.		
get router info ospf database brief get router info6 ospf database brief	Show OSPF database in brief for IPv4 and IPv6.		
diagnose ip router ospf all enable diagnose ip router ospf level info diagnose debug enable	Start real-time OSPF debugging.		
Multicast routing		Authentication	
Command	Description	Command	Description
get router info multicast igmp interface	Show IGMP statistics for an interface.	diagnose firewall auth filter <filter>	Set the filter used to list entries.
get router info multicast igmp groups	Show multicast groups subscribed to with IGMP.	diagnose firewall auth list	List filtered, authenticated IPv4 users.
diagnose ip multicast get-igmp-limit	Show maximum IGMP states.	diagnose wad user list	List current users authenticated by proxy (wad daemon).
diagnose ip router igmp decode enable diagnose ip router igmp level info diagnose debug console timestamp enable diagnose debug enable	Start real-time debugging of IGMP daemon.	diagnose debug application fnbamd -1 diagnose debug application authd -1 diagnose debug enable	Start real-time debugging for remote and local authentication.
execute mrouter clear igmp-interface <interface>	Clear all IGMP entries from one interface.	diagnose test authserver <auth_protocol> <server_name> <user> <password>	Test authentication directly from the CLI. Caution: The password is visible in clear text; be careful when capture this command to a log file.
execute mrouter clear igmp-group <group-address>	Clear all IGMP entries for one or all groups.	diagnose test authserver ldap <server_name> <user> <password>	Test user authentication using an LDAP server. Caution: The password is visible in clear text; be careful when capture this command to a log file.
get router info multicast pim sparse-mode <interface>	Show sparse-mode interface information.	diagnose test authserver radius <server_name> <auth_type> <user> <password>	Test user authentication using a Radius server. Caution: The password is visible in clear text; be careful when capture this command to a log file.
get router info multicast pim sparse-mode <neighbor>	Show sparse-mode neighbor information.	diagnose debug fssso-polling detail diagnose debug fssso-polling summary	Show information about the polls from FortiGate to DC.
get router info multicast pim sparse-mode rp-mapping	Show RP to group mapping information.	diagnose debug fssso-polling user diagnose debug authd fssso list	Show FSSO logged on users when Fortigate polls the DC.
get router info multicast pim sparse-mode table	Show sparse-mode routing table.	diagnose debug application fssod -1 diagnose debug application smbcd -1 diagnose debug enable	Start real-time debugging when the FortiGate is used for FSSO polling.
diagnose ip router pim-sm events enable diagnose ip router pim-sm all enable diagnose ip router pim-sm level info diagnose debug enable	Start real-time debugging of PIM sparse mode.	diagnose debug fssso-polling refresh-user execute fssso refresh	Refresh the current logged on FSSO users and refresh the list. Caution: This command can cause an outage, use it carefully.
SD-WAN		diagnose debug authd fssso server-status	Show current status of connection between FortiGate and the collector agent.
Command	Description	diagnose debug application authd 8256 diagnose debug enable	Start real-time debugging for the connection between FortiGate and the collector agent.
diagnose sys sdwan health-check status	Show SD-WAN health check statistics.	diagnose debug authd fssso refresh-logons	Resend the logged-on users list to FortiGate from the collector agent.
diagnose sys sdwan service	Show SD-WAN rules in control plane (7.4.3 and earlier).	diagnose debug application authd 8256 diagnose debug enable	Start real-time debugging for the connection between FortiGate and the collector agent.
diagnose sys sdwan service4 diagnose sys sdwan service6	Show SD-WAN rules in control plane (7.4.4 and later).	diagnose debug application samld -1 diagnose debug enable	Start real-time SAML debugging.
diagnose sys sdwan member	Show SD-WAN members.		
diagnose firewall proute list	Show SDWAN rule and policy routes in the data plane.		

IPsec

Command	Description	Command	Description
diagnose vpn ike gateway list	Show IPsec phase 1 information.	diagnose switch-controller switch-info poe	Show POE-related information.
diagnose vpn tunnel list	Show IPsec phase 2 information.	diagnose switch-controller switch-info lldp	Show LLDP-related information.
get vpn ipsec tunnel summary	Show summary and detailed information about IPsec tunnels.	diagnose switch-controller switch-info port-properties	Show managed FortiSwitch port properties.
get vpn ipsec tunnel details		diagnose switch-controller switch-info acl-counters	Show managed FortiSwitch port ACL counters information.
diagnose vpn ipsec status	Show information about encryption counters.	diagnose switch-controller switch-info pdu-counters-list	Show managed FortiSwitch pdu-counters information.
diagnose vpn ike log filter <filter>	Set a filter for IKE daemon debugs.	diagnose switch-controller switch-info flapguard	Show managed FortiSwitch flapguard information.
diagnose debug application ike -1	Start real-time debugging of IKE daemon with the filter set.	diagnose switch-controller switch-info qos-stats	Show managed FortiSwitch QoS statistics.
diagnose debug enable		diagnose switch-controller switch-info modules	Show modules related information from FortiSwitch.
diagnose vpn ike restart	Restart the IKE process.	diagnose switch-controller switch-info stp	Show managed FortiSwitch STP instance status.
diagnose vpn ike counts		diagnose switch-controller switch-info bpdu-guard-status	Show managed FortiSwitch STP BPDU guard status.
diagnose vpn ike routes		diagnose switch-controller switch-info igmp-snooping	Show managed FortiSwitch IGMP snooping information.
diagnose vpn ike errors		diagnose switch-controller switch-info loop-guard	Show managed FortiSwitch loop-guard status.
diagnose vpn ike stats		diagnose switch-controller switch-info dhcp-snooping	Show managed FortiSwitch DHCP snooping interface list.
diagnose vpn ike status		diagnose switch-controller switch-info arp-inspection	Show managed FortiSwitch ARP inspection interface list.
diagnose vpn ike crypto		diagnose switch-controller switch-info option82-mapping	Show managed FortiSwitch DHCP option 82 mapping information.

SSL VPN

Command	Description	Command	Description
diagnose vpn ssl debug-filter list	Show any filters that are set for SSL VPN debug.	diagnose switch-controller switch-info 802.1X	Show managed FortiSwitch port 802.1X status.
diagnose vpn ssl debug-filter clear	Clear any filters that are set for SSL VPN daemon debug.	diagnose switch-controller switch-info 802.1X-dacl	Show managed FortiSwitch port 802.1X dynamic ACL status.
diagnose vpn ssl debug-filter <filter>	Set a filter for SSL VPN debugs.	diagnose switch-controller switch-info mac-limit-violations	Show managed FortiSwitch violated MACs information.
diagnose debug application sslvpn -1	Start SSL VPN debugs for traffic that the filter is applied to.	diagnose switch-controller switch-info flow-tracking	Show managed FortiSwitch flow information.
diagnose debug enable		diagnose switch-controller switch-info mirror	Show managed FortiSwitch mirror information.
diagnose vpn ssl list	Show the current SSL VPN sessions for both web and tunnel mode.	diagnose switch-controller switch-info ip-source-guard	Show managed FortiSwitch source guard information in hardware.
get vpn ssl monitor		diagnose switch-controller switch-info rpvst	Show managed FortiSwitch STP port information when inter-operating with rapid PVST network.
execute vpn sslvpn list		execute switch-controller get-conn-status <FortiSwitch-SN>	Show FortiSwitch connection status.
diagnose vpn ssl statistics	Show the SSL VPN statistics.	execute switch-controller get-physical-conn standard <FortiSwitch-SN>	Show FortiLink connectivity graph.
diagnose vpn ssl mux-stat		execute switch-controller diagnose-connection <FortiSwitch-SN>	Show FortiSwitch connection diagnostics.
execute vpn sslvpn list	Show all SSL VPN web and tunnel mode connections.		
execute vpn sslvpn del-tunnel	Disconnect the users from tunnel mode SSL VPN connection.		
execute vpn sslvpn del-web	Disconnect the users from web mode SSL VPN connection.		

Managed FortiSwitches



The successful execution of commands for managed FortiSwitches requires that the feature is available on the FortiSwitch device itself. See the [FortiSwitchOS Feature Matrix](#).



Enter ? to view additional options or parameters required to obtain the required information in the `diagnose switch-controller switch-info` commands.

Command	Description
diagnose switch-controller switch-info mac-table	Show managed FortiSwitch MAC address list.
diagnose switch-controller switch-info port-stats	Show managed FortiSwitch port statistics.
diagnose switch-controller switch-info trunk status	Show managed FortiSwitch trunk information.
diagnose switch-controller switch-info mclag	Show MLAG related information from FortiSwitch.

Managed FortiAPs

Command	Description
diagnose wireless-controller wlac -c wtp	Show information about the FortiAP devices.
diagnose wireless-controller wlac -d wtp	Show information about the wireless clients connected to the FortiAP devices.
diagnose wireless-controller wlac -c sta	
diagnose wireless-controller wlac -d sta	

Command	Description	Command	Description
diagnose wireless-controller wlac help	Show a list of debug options available for the wireless controller.	diagnose endpoint record list <ip>	Show the endpoint record list. Optionally, filter by the endpoint IP address.
diagnose wireless-controller wlac sta_filter	Start real-time debugging of a wireless client/station that connects to the FortiAP.	diagnose endpoint wad-comm find-by uid <uid>	Query endpoints by client UID.
diagnose wireless-controller wlac sta_filter clear	• <aa:bb:cc:dd:ee:ff>: MAC address of endpoint/station	diagnose endpoint wad-comm find-by ip-vdom <ip> <vdom>	Query endpoints by the client IP-VDOM pair.
diagnose wireless-controller wlac sta_filter <aa:bb:cc:dd:ee:ff> 255		diagnose wad dev query-by uid <uid>	Query from WAD diagnose command by UID.
diagnose debug enable		diagnose wad dev query-by ipv4 <ip>	Query from WAD diagnose command by IP address.
diagnose wireless-controller wlac -c vap	Show virtual access point information, including its MAC address, BSSID, SSID, the interface name, and the IP address of the APs that are broadcasting it.	diagnose firewall dynamic list	Show EMS ZTNA tags and all dynamic IP and MAC addresses.
diagnose wireless-controller wlac wtp_filter	Show the wireless termination point (WTP), or FortiAP, debugging on the wireless controller if FortiAP is failing to connect to FortiGate.	diagnose test application fcnacd 7	Show the FortiClient NAC daemon ZTNA and route cache.
diagnose wireless-controller wlac wtp_filter clear	• <FAP-SN>: FortiAP serial number	diagnose test application fcnacd 8	
diagnose wireless-controller wlac wtp_filter <FAP-SN> 0- <x.x.x.x>:5246 255	• <x.x.x.x>: FortiAP IP address	diagnose wad debug display pid enable	Start real-time debugging of the traffic processed by WAD daemon.
diagnose debug application cw_acd 0x7ff		diagnose wad filter <filter>	
		diagnose wad filter list	
		diagnose wad debug enable level <level>	
		diagnose wad debug enable category <category>	
		diagnose debug enable	

High availability

Command	Description
diagnose system ha status get system ha status	Show HA status and information.
execute ha manage <index> <username>	Log into and manage a specific HA member.
diagnose sys ha checksum cluster	Show checksum information of all cluster members.
diagnose sys ha checksum show <vdom>	Show detailed checksum information for a VDOM.
diagnose sys ha checksum recalculate	Recalculate HA checksums.
diagnose sys ha recalculate- extfile-signature	Recalculate HA external files signatures.
diagnose sys ha reset-uptime	Reset the HA uptime. This is used to test failover.
diagnose debug application hatalk -1	Start real-time debugging of HA daemons.
diagnose debug application hasync -1	
diagnose debug application harelay -1	
diagnose debug enable	
diagnose sys ha history read	Show HA history.
execute ha synchronize stop execute ha synchronize start	Manually start and stop HA synchronization.

ZTNA



The WAD daemon handles proxy related processing.
The FortiClient NAC daemon (fcnacd) handles FortiGate to EMS connectivity.

Logging

Command	Description
diagnose log test	Generate logs for testing.
execute log filter <filter>	Set log filters.
execute log filter	Show log filters.
exec log display	Show filtered logs.
execute log delete	Delete filtered logs.
diagnose debug application milogd -1	Start real-time debugging of logging process milogd.
diagnose debug enable	
execute log fortianalyzer test-connectivity	Test connectivity between FortiGate and FortiAnalyzer.

Traffic shaping

Command	Description
diagnose firewall shaper traffic-shaper list	Show configured traffic shapers.
diagnose firewall shaper traffic-shaper stats list	Show traffic shaper statistics.

SIP session helper

Command	Description
diagnose sys sip status	Show SIP status.
diagnose sys sip mapping list	Show SIP mapping list.
diagnose sys sip dialog list	Show SIP dialogue list.
diagnose debug application sip -1	Start real-time SIP debugging.
diagnose debug enable	

SIP ALG

Command	Description
diagnose sys sip-proxy calls list	Show list of active SIP proxy calls.
diagnose sys sip-proxy stats	Show SIP proxy statistics.
diagnose sys sip-proxy session list	Show SIP proxy session list.
diagnose debug application sip -1	Start real-time SIP debugging.
diagnose debug enable	